FILE 'HOME' ENTERED AT 14:38:21 ON 12 DEC 2004

=> file reg

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 14:38:28 ON 12 DEC 2004 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 10 DEC 2004 HIGHEST RN 796738-17-5 DICTIONARY FILE UPDATES: 10 DEC 2004 HIGHEST RN 796738-17-5

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

Uploading C:\Program Files\Stnexp\Queries\10731633.str

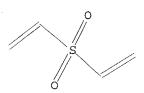
STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

L1

STR



Structure attributes must be viewed using STN Express query preparation.

=> s 11

SAMPLE SEARCH INITIATED 14:38:55 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 193 TO ITERATE

100.0% PROCESSED 193 ITERATIONS SEARCH TIME: 00.00.01

25 ANSWERS

FULL FILE PROJECTIONS:

ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS:

3027 TO 4693

PROJECTED ANSWERS:

200 TO 800

 $L_2$ 

25 SEA SSS SAM L1

L2 25 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with butyl 2-propenoate,
methyl 2-methyl-2-propenoate, 1,1'-sulfonylbis[ethene] and
3-(trimethoxysilyl)propyl 2-methyl-2-propenoate, ammonium salt (9CI)

MF (C10 H20 O5 Si . C8 H14 O2 . C7 H12 O2 . C5 H8 O2 . C4 H6 O2 S)x . x H3 N

CM 1

CM 2

$$^{\rm H_2C}$$
 O  $^{\rm OMe}$   $^{\rm \parallel}$   $^{\rm \parallel}$   $^{\rm \parallel}$   $^{\rm \parallel}$   $^{\rm Me-}$  C-C-O-(CH<sub>2</sub>)<sub>3</sub>-Si-OMe  $^{\rm \parallel}$  OMe

CM 3

$$n-BuO-C-CH$$
 CH2

CM 4

$$\begin{array}{c|c} \text{O} & \text{CH}_2 \\ \parallel & \parallel \\ \text{n-BuO-C-C-Me} \end{array}$$

CM 5

$$\begin{array}{ccc} ^{H_2C} & \text{O} \\ & \parallel & \parallel \\ \text{Me-} & \text{C-} & \text{C-} & \text{OMe} \end{array}$$

CM 6

$$\begin{array}{c} \text{O} \\ || \\ \text{H}_2\text{C} \longrightarrow \text{CH} - \text{S} - \text{CH} \longrightarrow \text{CH}_2 \\ || \\ \text{O} \end{array}$$

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L2 25 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN Maleic acid, dimethyl ester, polymer with vinyl sulfone (8CI) MF (C6 H8 O4 . C4 H6 O2 S) $\mathbf{x}$ 

CI PMS

CM 1

Double bond geometry as shown.

CM 2

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s 11 full

FULL SEARCH INITIATED 14:39:21 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 3793 TO ITERATE

100.0% PROCESSED 3793 ITERATIONS

507 SEA SSS FUL L1

507 ANSWERS

156.05

SEARCH TIME: 00.00.01

 $L_3$ 

=> file caplus
COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION

155.84

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 14:39:30 ON 12 DEC 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 12 Dec 2004 VOL 141 ISS 25 FILE LAST UPDATED: 10 Dec 2004 (20041210/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s 13 (L) electrolyte
```

1021 L3

228676 ELECTROLYTE

17 L3 (L) ELECTROLYTE L4

=> s 13 and electrolyte

1021 L3

228676 ELECTROLYTE

L5 30 L3 AND ELECTROLYTE

=> d 1-30 ibib hitstr

ANSWER 1 OF 30 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:796490 CAPLUS

DOCUMENT NUMBER:

141:263480

TITLE:

A nonaqueous electrolyte for a lithium

secondary battery

INVENTOR(S):

Noh, Hyeong-Gon; Jung, Cheol-Soo; Song, Eui-Hwan

PATENT ASSIGNEE(S):

Samsung SDI Co., Ltd., S. Korea

SOURCE:

LANGUAGE:

Eur. Pat. Appl., 25 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
			•	
EP 1463143	A2	20040929	EP 2003-90265	20030821
			, GR, IT, LI, LU,	
IE, SI, LT,	LV, FF	, RO, MK, CY	AL, TR, BG, CZ,	EE, HU, SK
US 2004197667	A1/	20041007	US 2003-653192	20030903
PRIORITY APPLN. INFO.:	(	J/	KR 2003-18226	A 20030324
OTHER SOURCE(S):	MARRAT	141:263480		
IT 77-77-0, Vinyl sulfo	one 🔪			
RL: MOA (Modifier or	r addit:	ive use); US	ES (Uses)	
,	_	2		

(nonaq. electrolyte for lithium secondary battery)

RN 77-77-0 CAPLUS

CN Ethene, 1,1'-sulfonylbis- (9CI) (CA INDEX NAME)

$$\begin{array}{c} \mathsf{O} \\ || \\ \mathsf{H}_2\mathsf{C} &= \mathsf{CH} - \mathsf{S} - \mathsf{CH} &= \mathsf{CH}_2 \\ || \\ \mathsf{O} \end{array}$$

ANSWER 2 OF 30 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:759329 CAPLUS

DOCUMENT NUMBER:

141:280368

TITLE:

Secondary nonaqueous lithium battery

INVENTOR(S):

Takahashi, Kentaro

PATENT ASSIGNEE(S):

Sanyo Electric Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 8 pp.

SOURCE:

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004259681	A2	20049916	JP 2003-52001	20030227
PRIORITY APPLN. INFO.:			JP 2003-52001	20030227

IT 77-77-0, Divinyl sulfone

> RL: MOA (Modifier or additive use); USES (Uses) (electrolytes containing compds. having higher reduction potential than vinylene carbonate for secondary lithium batteries)

RN 77-77-0 CAPLUS

CNEthene, 1,1'-sulfonylbis- (9CI) (CA INDEX NAME)

ANSWER 3 OF 30 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:753254 CAPLUS

DOCUMENT NUMBER:

141:228183

TITLE:

A nonaqueous electrolyte for lithium

secondary battery

INVENTOR(S):

Kim, Jin-Hee; Kim, Jin-Sung; Hwang, Sang-Moon; Paik,

Meen-Seon; Kim, Hak-Soo

PATENT ASSIGNEE(S):

Samsung SDI Co., Ltd., S. Korea; Cheil Industries Inc.

SOURCE:

Eur. Pat. Appl., 33 pp. CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	- DATE	
	EP 1458048	A1	20040915	EP 2003-90262	20030821	
	R: AT, BE, CH,			, GR, IT, LI, LU, NL,		
	IE, SI, LT,	LV/FI	, RO, MK, CY	, AL, TR, BG, CZ, EE,	HU, SK	
	US 2004185347	ΑĹ	20040927	US 2003-658272	20030910	
	PRIORITY APPLN. INFO.:		7	KR 2003-15749	20030313	
	OTHER SOURCE(S):	MARPAT	<u>141:22</u> 8183			
IT 77-77-0 Vinvlsulfone						

ΙT **77-77-0**, Vinylsulfone

RL: DEV (Device component use); USES (Uses)

(nonaq. electrolyte for lithium secondary battery)

RN 77-77-0 CAPLUS

Ethene, 1,1'-sulfonylbis- (9CI) (CA INDEX NAME) CN

$$\begin{array}{c} {\rm O} \\ || \\ {\rm H_2C} = {\rm CH} - {\rm S} - {\rm CH} = {\rm CH_2} \\ || \\ {\rm O} \end{array}$$

REFERENCE COUNT:

10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 4 OF 30 CAPLUS COPYRIGHT 2004 ACS on STN ACCESSION NUMBER: 2004:652503 CAPLUS

DOCUMENT NUMBER:

141:159902

TITLE:

INVENTOR(S):

Electrolyte for lithium secondary battery

Kim, Jin-Sung; Lee, Jong-Wook; Kim, Kwang-Sik; Kim,

Young-Gyu; Kim, Je-Yun; Kim, Jong-Seob

PATENT ASSIGNEE(S):

SOURCE:

S. Korea U.S. Pat. Appl. Publ., 12 pp., Cont.-in-part of U.S.

Ser. No. 766,520.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
			·	_	<del>-</del>
US 2004157133	A1	20040812	US 2003-718478		20031118
US 2001009744	A1	20010726	US 2001-766520		20010119
PRIORITY APPLN. INFO.:			US 2001 <del>-766520</del>	A2	20010119
		*	KR 2000-2947	Α	20000121
			KR 2000-81253	Α	20001223

OTHER SOURCE(S):

MARPAT 141:159902

77-77-0, Vinyl sulfone

RL: MOA (Modifier or additive use); USES (Uses) (electrolyte for lithium secondary battery)

RN77-77-0 CAPLUS

Ethene, 1,1'-sulfonylbis- (9CI) (CA INDEX NAME) CN

$$\begin{array}{c} \mathsf{O} \\ || \\ \mathsf{H}_2\mathsf{C} &= \mathsf{CH} - \mathsf{S} - \mathsf{CH} &= \mathsf{CH}_2 \\ || \\ \mathsf{O} \end{array}$$

ANSWER 5 OF 30 CAPLUS COPYRIGHT 2004 ACS on STN L5

ACCESSION NUMBER:

2004:433706 CAPLUS

DOCUMENT NUMBER:

140:426121

TITLE:

Electrolyte for a lithium ion battery

INVENTOR(S):

Noh, Hyeong-Gon

PATENT ASSIGNEE(S):

S. Korea

SOURCE:

U.S. Pat. Appl. Publ., 12 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

,				
PATENT NO.	KIND	DATE	APPLICATION NO. DAT	ΓE
( US 2004101762 )	A1	20040527	US 2003-716812 200	031118
JP 2004172084	A2	20040617	JP 2003-281842 200	030729
PRIORITY APPLN. INFO.:			KR 2002-72475 A 200	021120
OTHER SOURCE(S):	MARPAT	140:426121		
IT 77-77-0, Vinyl sulf	one			
/ 2.5.	2.21			

RL: MOA (Modifier or additive use); USES (Uses)

(electrolyte for lithium ion battery)

RN 77-77-0 CAPLUS

Ethene, 1,1'-sulfonylbis- (9CI) (CA INDEX NAME) CN

$$H_2C = CH - S - CH = CH_2$$

L5 ANSWER 6 OF 30 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:203431 CAPLUS

DOCUMENT NUMBER:

140:238483

TITLE:

**Electrolyte** for a lithium battery

INVENTOR(S):

Park, Yong-Chul; Jung, Won-Ii; Kim, Geun-Bae; Cho,

Jae-Phil; Jung, Cheol-Soo

PATENT ASSIGNEE(S):

S. Korea

SOURCE:

U.S. Pat. Appl. Publ., 13 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
				_	
(US 2004048163 <b>\</b> )	A1	20040311	US 2003-656086		20030905
JR 2004103573	A2	20040402	JP 2003-282119		20030729
PRIORITY APPLN. INFO.:			KR 2002-53879	Α	20020906
OTHER SOURCE(S):	MARPAT	140:238483			
IT 77-77-0, Vinyl sulfe	one				

RL: MOA (Modifier or additive use); USES (Uses)

(electrolyte for lithium battery)

RN 77-77-0 CAPLUS

CN Ethene, 1,1'-sulfonylbis- (9CI) (CA INDEX NAME)

$$\begin{array}{c} {\rm O} \\ \parallel \\ {\rm H_2C} = {\rm CH} - {\rm S} - {\rm CH} = {\rm CH_2} \\ \parallel \\ {\rm O} \end{array}$$

L5 ANSWER 7 OF 30 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:119843 CAPLUS

DOCUMENT NUMBER:

140:149224

TITLE:

Nonaqueous electrolytic solution with improved safety

for lithium battery

INVENTOR(S):

Kim, Jun-ho; Lee, Ha-young; Choy, Sang-hoon; Kim,

Ho-sung

PATENT ASSIGNEE(S):

Samsung SDI Co., Ltd., S. Korea

SOURCE:

U.S. Pat. Appl. Publ., 12 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
( <b></b> ,-,A-				
US 2004029018/	A1	20040212	US 2003-637554	20030811
JP 2004079532	A2	20040311	JP 2003-290946	20030808
PRIORITY APPLN INFO.:			KR 2002-47510 A	20020812

IT 77-77-0, Vinyl sulfone

RL: MOA (Modifier or additive use); USES (Uses)

(nonaq. electrolytic solution with improved safety for lithium battery)

RN 77-77-0 CAPLUS

CN Ethene, 1,1'-sulfonylbis- (9CI) (CA INDEX NAME)

L5 ANSWER 8 OF 30 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:59638 CAPLUS

DOCUMENT NUMBER:

SOURCE:

140:96917

TITLE:

Nonaqueous electrolytic solution for lithium battery

Abe, Koji; Hattori, Takayuki; Matsumori, Yasuo

PATENT ASSIGNEE(S):

Ube Industries, Ltd., Japan U.S. Pat. Appl. Publ., 10 pp.

CODEN: USXXCO

INVENTOR(S):

Patent

DOCUMENT TYPE: LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	_	DATE
US 2004013946	A1	20040122	US 2003-619005		20030715
CN 1487621	Α	20040407	CN 2003-154625		20030715
JP 2004179146	A2	20040624	JP 2003-274986		20030715
PRIORITY APPLN. INFO.:			JP 2002-205560	A	20020715
			JP 2002-326391	Α	20021111

IT 77-77-0, Divinyl sulfone

RL: DEV (Device component use); USES (Uses)

(nonaq. electrolytic solution for lithium battery)

RN 77-77-0 CAPLUS

CN Ethene, 1,1'-sulfonylbis- (9CI) (CA INDEX NAME)

$$\begin{array}{c} \text{O} \\ \text{H}_2\text{C} = \text{CH} - s - \text{CH} = \text{CH}_2 \\ \text{O} \end{array}$$

L5 ANSWER 9 OF 30 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2003:796195 CAPLUS

DOCUMENT NUMBER:

139:294681

TITLE:

Electrolyte for lithium battery to reduce

overcharge and improve electrochemical characteristics

INVENTOR(S):

Kim, Jun-Ho; Lee, Ha-Young; Choy, Sang-Hoon; Kim,

Ho-Sung; Noh, Hyeong-Gon

PATENT ASSIGNEE(S):

Samsung SDI Co., Ltd., S. Korea U.S. Pat. Appl. Publ., 19 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

SOURCE:

English

FAMILY ACC. NUM. COUNT:

1

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003190529	A1	20031009	US 2003-393294	20030321
KR 2003079310	A	20031010	KR 2002-18264	20020403
CN 1449070	Α	20031015	CN 2003-108529	20030328
JP 2003297426	A2	20031017	JP 2003-100349	20030403
PRIORITY APPLN. INFO.:			KR 2002-18264 A	20020403
OTHER SOURCE(S):	MARPAT	139:294681		

ΙT **77-77-0**, Vinyl sulfone

RL: MOA (Modifier or additive use); USES (Uses)

(electrolyte for lithium battery to reduce overcharge and improve electrochem. characteristics)

77-77-0 CAPLUS RN

CN Ethene, 1,1'-sulfonylbis- (9CI) (CA INDEX NAME)

$$H_2C \longrightarrow CH - S - CH \longrightarrow CH_2$$

ANSWER 10 OF 30 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2003:717588 CAPLUS

DOCUMENT NUMBER:

139:233057

TITLE:

Method for production of anode active material composition for a rechargeable lithium battery Kim, Chang-Seob; Kim, Ju-Hyung; Park, Un-Sick

INVENTOR (S): PATENT ASSIGNEE(S):

S. Korea

SOURCE:

U.S. Pat. Appl. Publ., 6 pp.

CODEN: USXXCO

DOCUMENT TYPE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
(				-	
US 2003170534	A1	20030911	US 2003-371299		20030221
KR 2003072765	A	20030919	KR 2002-11952		20020306
JP 2003263988	A2	20030919	JP 2003-57561		20030304
CN 1442915	A	20030917	CN 2003-106878		20030306
PRIORITY APPLN. INFO.:			KR 2002-11952	Α	20020306
IT 77-77-0 Vinvl sulf	one				

77-77-0, Vinyl sulfone

RL: MOA (Modifier or additive use); USES (Uses)

(method for production of anode active material composition for rechargeable lithium battery)

RN77-77-0 CAPLUS

CN Ethene, 1,1'-sulfonylbis- (9CI) (CA INDEX NAME)

$$H_2C = CH - S - CH = CH_2$$

ANSWER 11 OF 30 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2003:628420 CAPLUS

DOCUMENT NUMBER:

139:166961

TITLE:

Secondary nonaqueous-electrolyte battery with electrolyte solvent containing chain

INVENTOR(S):

Murai, Tetsuya

PATENT ASSIGNEE(S):

Japan Storage Battery Co., Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
				-	
JP 2003229168	A2	20030815	JP 2002-25969		20020201
US 2003170549	A1	20030911	US 2003~347735		20030122
CN 1435906	A	20030813	CN 2003-103136		20030130
PRIORITY APPLY. INFO.:			JP 2002-25969	Α	20020201
OTHER COURCE (c).	MADDAG	1 1 2 0 1 6 6 0 6 1			

OTHER SOURCE(S):

MARPAT 139:166961

77-77-0, Divinyl sulfone

RL: DEV (Device component use); USES (Uses)

(solvent; secondary nonaq.-electrolyte battery with

electrolyte solvent containing chain ester)

RN 77-77-0 CAPLUS

Ethene, 1,1'-sulfonylbis- (9CI) (CA INDEX NAME) CN

$$\begin{array}{c} \text{O} \\ \text{||} \\ \text{H}_2\text{C} \end{array} = \begin{array}{c} \text{CH} - \begin{array}{c} \text{C} \\ \text{H} \end{array} = \begin{array}{c} \text{CH} \end{array}$$

ANSWER 12 OF 30 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2003:433060 CAPLUS

DOCUMENT NUMBER:

139:9309

TITLE:

Organic electrolyte solutions and polymer electrolytes containing carbonates having

carbon-carbon double bonds and secondary lithium

batteries

INVENTOR(S):

Oh, Wan-seok; Lee, Sang-won; Kim, Ko-sup; Choi,

Sang-hoon

PATENT ASSIGNEE(S):

SOURCE:

Samsung Sdi Co., Ltd., S. Korea

Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent Japanese

LANGUAGE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PAT	ENT	NO.		,	/ĸ
		<b>-</b>		- /	-
JP	2003	163	032	$\sim$	

KR 2003023290.

05	2003113634 /
CN	1407649
PRIORITY	APPLN_INFO.:

77-77-0, Vinyl sulfone

KIND	DATE	APPLICATION NO.	DATE	
A2	20030606	JP 2002-257063	2002090	02
A	20030319	KR 2001-56438	2001093	13
A1	20030619	US 2002-232315	2002090	03
A	20030402	CN 2002-142971	2002093	13
		KR 2001-56438	A 2001091	13

RL: DEV (Device component use); MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(electrolyte solns. containing ethylenically unsatd. carbonates for use in secondary lithium battery polymer electrolytes)

RN 77-77-0 CAPLUS

Ethene, 1,1'-sulfonylbis- (9CI) (CA INDEX NAME)

$$H_2C = CH - S - CH = CH_2$$

L12 in CAST

ANSWER 13 OF 30 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2002:812215 CAPLUS

DOCUMENT NUMBER:

137:339972

TITLE:

CN

Nonaqueous electrolyte containing nonaqueous

solvents and nonaqueous electrolyte

secondary battery using the same for suppression of . gas generation during high-temperature storage and

charging/discharging processes

INVENTOR (S):

Sekino, Masahiro; Sato, Asako; Fujiwara, Masashi;

Monma, Shun; Hasebe, Hiroyuki

PATENT ASSIGNEE(S):

SOURCE:

Toshiba Corp., Japan

Jpn. Kokai Tokkyo Koho, 18 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

LANGUAGE:

Patent Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002313418 PRIORITY APPLN. INFO.:	A2	20021025	JP 2001-110918 JP 2001-110918	20010410 20010410

ΤТ 77-77-0, Divinylsulfone

77-77-0, Divinylsulfone / RL: TEM (Technical or engineered material use); USES (Uses) (solvent in nonaq. electrolyte used for Li secondary battery)

77-77-0 CAPLUS RN

CN Ethene, 1,1'-sulfonylbis- (9CI) (CA INDEX NAME)

$$\begin{array}{c} {\rm O} \\ || \\ {\rm H_2C} = {\rm CH} - {\rm S-CH} = {\rm CH_2} \\ || \\ {\rm O} \end{array}$$

ANSWER 14 OF 30 CAPLUS COPYRIGHT 2004 ACS on STN

Japan

ACCESSION NUMBER:

2002:674628 CAPLUS

DOCUMENT NUMBER:

137:188305

TITLE:

Nonaqueous secondary battery having enhanced discharge

capacity retention

INVENTOR(S):

Hamamoto, Toshikazu; Abe, Koji; Takai, Tsutomu;

Matsumori, Yasuo; Ueki, Akira

PATENT ASSIGNEE(S):

SOURCE:

U.S. Pat. Appl. Publ., 13 pp., Cont.-in-part of U.S.

Ser. No. 631,518.

CODEN: USXXCO

DOCUMENT TYPE:

Patent English

LANGUAGE: FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002122988 JP 2001052735	A1 A2	20020905	US 2001-21130 JP 1999-219708	20011022
JP 3444243 JP 2002134167	B2 A2	20030908 20020510	JP 2000-321146	20001020
JP 2002203594 PRIORITY APPLN. INFO.:	A2	20020719	JP 2000-363656 JP 1999-219708 A	20001129 19990803
•		,	US 2000-631518 A2 JP 2000-321146 A	20001020
			JP 2000-335946 A JP 2000-363656 A	20001102 20001129

OTHER SOURCE(S):

MARPAT 137:188305

77-77-0, Divinylsulfone

RL: MOA (Modifier or additive use); USES (Uses)

(nonaq. secondary battery having enhanced discharge capacity retention)

RN77-77-0 CAPLUS

Ethene, 1,1'-sulfonylbis- (9CI) (CA INDEX NAME) CN

$$H_2C = CH - S - CH = CH_2$$

ANSWER 15 OF 30 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2002:636908 CAPLUS

DOCUMENT NUMBER:

137:188196

TITLE:

Separator with sulfur compound thin film for secondary

battery and the battery using it

INVENTOR(S):

Yamada, Kazuhiro; Kobayashi, Shigeaki; Kaimai,

Norimitsu; Takita, Kotaro; Kono, Koichi

PATENT ASSIGNEE(S):

SOURCE:

Tonen Chemical Corp., Japan Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent Japanese

LANGUAGE: FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND D	DATE	APPLICATION NO.	DATE
	/ -	JP 2001-32144	20010208
PRIORITY APPLN. INFO.: OTHER SOURCE(S): MARPAT 1	137:188196	JP 2001-32144	20010208

77-77-0, Vinyl sulfone

RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses)

(separator with S compound thin film on porous polyolefin film for battery with low irreversible anode capacity and good cycling performance)

RN77-77-0 CAPLUS

Ethene, 1,1'-sulfonylbis- (9CI) (CA INDEX NAME) CN

$$\begin{array}{c} {\rm O} \\ || \\ {\rm H_2C} = {\rm CH} - {\rm S} - {\rm CH} = {\rm CH_2} \\ || \\ {\rm O} \end{array}$$

ANSWER 16 OF 30 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2002:314520 CAPLUS

DOCUMENT NUMBER:

136:328190

TITLE:

Nonaqueous secondary battery having enhanced discharge

capacity retention

INVENTOR(S):

Abe, Koji; Ueki, Akira; Hamamoto, Toshikazu

PATENT ASSIGNEE(S):

Ube Industries, Ltd., Japan Eur. Pat. Appl., 15 pp.

SOURCE:

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ED 1100E66		<del>-</del> /	·	
EP 1199766	A2	2002042/4	EP 2001-124312	20011019
EP 1199766	A3	200406,02		
R: AT, BE, CH,	DE, DK	ES, FR,	GB, GR, IT, LI, LU, NL,	SE, MC, PT,
IE, SI, LT,	LV, FI		CY, AL, TR	
JP 2002134167	A2	2002/0510	JP 2000-321146	20001020
JP 2002203594	A2	200/20719	JP 2000-363656	20001129
CN 1350343	Α	20/020522	CN 2001-142417	20011019
PRIORITY APPLN. INFO.:		/	JP 2000-321146 P	20001020
			JP 2000-335946 A	20001102
		'	JP 2000-363656 A	20001129

OTHER SOURCE(S):

MARPAT 136:328190

ΙT 77-77-0, Divinylsulfone

> RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

(nonaq. secondary battery having enhanced discharge capacity retention) RN 77-77-0 CAPLUS

CN Ethene, 1,1'-sulfonylbis- (9CI) (CA INDEX NAME)

$$\begin{array}{c} \text{O} \\ \parallel \\ \text{H}_2\text{C} = \text{CH} - \text{S} - \text{CH} = \text{CH}_2 \\ \parallel \\ \text{O} \end{array}$$

ANSWER 17 OF 30 CAPLUS COPYRIGHT 2004 ACS on STN  $L_5$ 

ACCESSION NUMBER:

2001:546079 CAPLUS

DOCUMENT NUMBER:

INVENTOR(S):

135:109752

TITLE:

Electrolyte for lithium secondary battery

Kim, Jin-sung; Lee, Jong-wook; Kim, Kwang-sik; Kim,

Young-gyu; Kim, Je-yun; Kim, Jong-seob

PATENT ASSIGNEE(S):

S. Korea

SOURCE:

U.S. Pat. Appl. Publ., 7 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO. DATE
		/	/
US 2001009744	A1	20010726 (	US 2001-766520 🗸 ) 20010119
KR 2001086281	Α	20010910	KR 2000-81253 20001223
JP 2001223024	A2	20010817	JP 2001 <del>-10953</del> 20010119
US 2004157133	A1	20040812	US 2003-718478 20031118
PRIORITY APPLN. INFO.:			KR 2000-2947 A 20000121
•			KR 2000-81253 A 20001223
			US 2001-766520 A2 20010119

OTHER SOURCE(S):

MARPAT 135:109752

ΙT 77-77-0, Vinyl sulfone

RL: MOA (Modifier or additive use); USES (Uses)

(sulfone based organic compound containing electrolyte for lithium secondary battery)

RN 77-77-0 CAPLUS

Ethene, 1,1'-sulfonylbis- (9CI) (CA INDEX NAME) CN

$$^{\mathrm{O}}_{\mathrm{H_2C}}$$
 CH $^{\mathrm{C}}$  CH $^{\mathrm{C}}$  CH $^{\mathrm{C}}$  CH $^{\mathrm{C}}$ 

ANSWER 18 OF 30 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2001:485540 CAPLUS

DOCUMENT NUMBER:

135:95152

TITLE:

Nonaqueous-electrolyte solution containing

organic additive and battery using it

INVENTOR(S):

Yamada, Kazuhiro; Saito, Toshiya; Taki, Takayuki;

Asano, Satoshi; Takatsuna, Kazutoshi

PATENT ASSIGNEE(S):

Tonen Chemical Corp., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent Japanese

LANGUAGE: FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001185212 PRIORITY APPLN. INFO.:	A2`	20010706	JP 1999-364694 JP 1999-364694	19991222 19991222

RL: DEV (Device component use); MOA (Modifier or additive use); USES

(nonaq.-electrolyte solution containing organic additive for battery having long cycle life)

RN. 77-77-0 CAPLUS

CN Ethene, 1,1'-sulfonylbis- (9CI) (CA INDEX NAME)

$$H_2C = CH = CH_2$$

ANSWER 19 OF 30 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2001:145044 CAPLUS

DOCUMENT NUMBER:

SOURCE:

134:195752

TITLE:

Nonaqueous electrolyte solution and secondary lithium battery using it

INVENTOR(S):

Hinohara, Akio

PATENT ASSIGNEE(S):

Mitsui Chemicals Inc., Japan Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE .
JP 2001057234 PRIORITY APPLN. INFO.:	A2	20010227	JP 1999-232211 JP 1999-232211	19990819 19990819
TM		/		

IT77-77-0, Divinyl sulfone

RL: DEV (Device component use); MOA (Modifier or additive use); USES

(nonaq. electrolyte solution for secondary lithium battery with long cycle life)

RN 77-77-0 CAPLUS

Ethene, 1,1'-sulfonylbis- (9CI) CN (CA INDEX NAME)

$$\begin{array}{c} \mathsf{O} \\ \mathsf{H}_2\mathsf{C} & \overset{\mathsf{O}}{=} \mathsf{CH} & \overset{\mathsf{O}}{=} \mathsf{CH} \\ \mathsf{O} \end{array}$$

1.5 ANSWER 20 OF 30 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2001:117401 CAPLUS

DOCUMENT NUMBER:

134:165674

TITLE:

Nonaqueous electrolyte solutions and secondary lithium batteries using the

electrolyte solutions

INVENTOR(S):

Hamamoto, Shunichi; Ueki, Akira; Abe, Hiroshi;

Matsumori, Yasuo

PATENT ASSIGNEE(S):

SOURCE:

Ube Industries, Ltd., Japan Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

LANGUAGE:

Patent Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	_	DATE
JP 2001043895 CN 1277468	A2 A	200 <b>1</b> 0216 20 <b>0</b> 01220	JP 2000-116327 CN 2000-122508		20000418
PRIORITY APPLN. INFO.:			JP 1999-143222	A A	

TΤ 77-77-0, Divinylsulfone

RL: DEV (Device component use); PRP (Properties); USES (Uses) (nonaq. electrolyte solns. with controlled reduction p.d. among solvent components for secondary lithium batteries)

RN 77-77-0 CAPLUS

$$H_2C = CH - S - CH = CH_2$$

ANSWER 21 OF 30 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2001:62801 CAPLUS

DOCUMENT NUMBER:

134:118407

TITLE:

Nonaqueous electrolyte solutions and

secondary lithium batteries using the solutions Hamamoto, Shunichi; Abe, Hiroshi; Takai, Tsutomu;

INVENTOR(S):

Matsumori, Yasuo

PATENT ASSIGNEE(S): SOURCE:

Ube Industries, Ltd., Japan Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent Japanese

LANGUAGE: FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

				ለእ	
PATENT NO.	KIND	DATE	APPLICATION NO.	, OX	DATE
		/		γ <del>.</del>	
JP 2001023688	A2	20010126	JP 1999-198351	10/1	19990713
US 2003148190	A1	2003,0807	US 2(00-569185 \)		20000511
US 2004121240	A1	20040624	us 20\03-731633 /		20031209
PRIORITY APPLN. INFO.:			JP 1998-132829	Α	19980515
			JP 1999-198351	Α	19990713
			US 2000-569185	- Δ1	20000511

OTHER SOURCE(S):

MARPAT 134:118407

ΙT 77-77-0, Divinyl sulfone

RL: MOA (Modifier or additive use); USES (Uses)

(Nonaq. electrolyte solns. and secondary lithium batteries using the solns.)

RN 77-77-0 CAPLUS

CN Ethene, 1,1'-sulfonylbis- (9CI) (CA INDEX NAME)

$$H_2C = CH - S - CH = CH_2$$

ANSWER 22 OF 30 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2000:437884 CAPLUS

DOCUMENT NUMBER:

133:177823

TITLE:

Swelling Behavior of Covalently Cross-Linked Gellan

AUTHOR(S):

Annaka, Masahiko; Ogata, Yuko; Nakahira, Takayuki

CORPORATE SOURCE:

Department of Materials Technology, Chiba University,

Chiba, 263-8522, Japan

SOURCE:

Journal of Physical Chemistry B (2000), 104(29),

6755-6760

CODEN: JPCBFK; ISSN: 1089-5647

PUBLISHER:

American Chemical Society

DOCUMENT TYPE:

Journal

LANGUAGE:

English

77-77-0D, Divinyl sulfone, crosslinked polymers with gellan

RL: PRP (Properties)

(effect of salt concentration and pH on swelling equilibrium of divinyl

sulfone

crosslinked gellan gels)

77-77-0 CAPLUS RN

Ethene, 1,1'-sulfonylbis- (9CI) (CA INDEX NAME) CN

$$H_2C = CH - S - CH = CH_2$$

REFERENCE COUNT:

THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS 23 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 23 OF 30 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1999:756239 CAPLUS

DOCUMENT NUMBER:

131:339492

TITLE:

Electrolytes for secondary lithium batteries and the

batteries

INVENTOR(S):

Hamamoto, Shunichi; Abe, Hiroshi; Takai, Tsutomu

PATENT ASSIGNEE(S):

Ube Industries, Ltd., Japan Jpn. Kokai Tokkyo Koho, 5 pp.

SOURCE:

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

2

PATENT INFORMATION:

/				
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
				<b>-</b>
( JP 11329494 <b>V</b> )	A2	19991130	JP 1998-132829	19980515
US_2003148190	A1	20030807	US 2000-569185	20000511
PRIORITY APPLN. INFO.:			JP 1998-132829 A	19980515
			JP 1999-198351 A	19990713

OTHER SOURCE(S):

MARPAT 131:339492

77-77-0, Divinyl sulfone ΙT

RL: DEV (Device component use); USES (Uses)

(lithium salt electrolyte solns. containing vinyl sulfone derivs.

for secondary lithium batteries)

77-77-0 CAPLUS RN

Ethene, 1,1'-sulfonylbis- (9CI) (CA INDEX NAME) CN

$$\mathbf{H}_{2}\mathbf{C}$$
  $=$   $\mathbf{C}\mathbf{H}$   $=$   $\mathbf{S}$   $=$   $\mathbf{C}\mathbf{H}$   $=$   $\mathbf{C}\mathbf{H}_{2}$ 

ANSWER 24 OF 30 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1998:496179 CAPLUS

DOCUMENT NUMBER:

129:138540

TITLE:

Manufacture of batteries electrodes and batteries

using the electrodes

INVENTOR(S):

Okada, Mikio

PATENT ASSIGNEE(S):

Japan Storage Battery Co., Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

APPLICATION NO. DATE PATENT NO. KIND DATE \_\_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_\_ - - - -\_ \_ \_ \_ \_ \_ \_ \_ \_ 19980731 JP 1996-358332 19961228 JP 10199570 Α2 JP 1996-358332 19961228 PRIORITY APPLN. INFO

62804-37-9

RL: MOA (Modifier or additive use); USES (Uses)

-(manufacture of polymer containing electrodes for secondary lithium

batteries)

RN 62804-37-9 CAPLUS

Ethene, 1,1'-sulfonylbis-, homopolymer (9CI) (CA INDEX NAME) CN

CM 1

CRN 77-77-0 CMF C4 H6 O2 S

$$\begin{array}{c} \text{O} \\ \parallel \\ \text{H}_2\text{C} \end{array} = \text{CH} - \begin{array}{c} \text{C} \\ \text{S} - \text{CH} \end{array} = \text{CH}_2$$

ANSWER 25 OF 30 CAPLUS COPYRIGHT 2004 ACS on STN L5

ACCESSION NUMBER:

1998:414652 CAPLUS

DOCUMENT NUMBER:

129:83770

TITLE:

Passivation-free solid state secondary battery Abraham, Kuzhikalail M.; Peramunage, Dharmasena

INVENTOR(S): PATENT ASSIGNEE(S):

EIC Laboratories, Inc., USA

SOURCE:

U.S., 10 pp. CODEN: USXXAM

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT:

DATENT INFORMATION.

CRN 77-77-0 CMF C4 H6 O2 S

PATENT INFORMATION:							
PATENT-NO.	KIND	DATE	APPLICATION NO.	DATE			
US 5766796	A	19980616	US 1997-851876	19970506			
PRIORITY APPLN. INFO.:			US 1997-851876	19970506			
IT 62804-37-9D lithium complexes							
RL: TEM (Technical or engineered material use); USES (Uses)							
(electrolyte in passivation-free solid state secondary							
lithium-ion bat	tteries)						
RN 62804-37-9 CAPLUS	S						
CN Ethene, 1,1'-sulfo	onylbis-	, homopolyme	r (9CI) (CA INDEX NAME)	)			
	-						
CM 1							

REFERENCE COUNT:

5

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

19950914

19950914

L5 ANSWER 26 OF 30 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1997:340948 CAPLUS

DOCUMENT NUMBER:

127:21018

TITLE:

Secondary nonaqueous electrolyte batteries

using improved cathode active masses

INVENTOR (S):

Kato, Naoyuki

PATENT ASSIGNEE(S):

Sony Corp., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.
JP 09082360	A2	19970328	JP 1995-236676
PRIORITY APPLN. INFO.:			JP 1995-236676

RIORITY APPLN. IMFO.: JP 1995-236676

62804-37-9 Divinyl sulfone homopolymer

RL: DEV (Device component use); USES (Uses)

(solid electrolyte; nonaq. batteries using Li composite oxide cathodes coated with Li ion-conductive solid electrolytes for high-temperature capacity)

RN 62804-37-9 CAPLUS

CN Ethene, 1,1'-sulfonylbis-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 77-77-0 CMF C4 H6 O2 S

$$\begin{array}{c} \text{O} \\ \parallel \\ \text{H}_2\text{C} = \text{CH} - \text{S} - \text{CH} = \text{CH}_2 \\ \parallel \\ \text{O} \end{array}$$

L5 ANSWER 27 OF 30 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1996:34970 CAPLUS

DOCUMENT NUMBER:

124:122114

TITLE:

Solid poly(vinyl sulfone) electrolytes for secondary

lithium ion batteries

INVENTOR(S):

Abraham, Kuzhikalail M.; Alamgir, Mohamed; Choe, Hyoun

S

PATENT ASSIGNEE(S):

EIC Laboratories, Inc., USA

SOURCE:

U.S., 8 pp. CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

```
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
     PATENT NO
                                            APPLICATION NO.
                         KIND
                                DATE
                                                                   DATE
                                19951212
     US 5474860
                                            US 1994-249504
                          Α
                                                                    19940526
                                            US 1994-249504
PRIORITY APPLN. INFO.:
                                                                    19940526
     62804-37-9D Divinyl sulfone homopolymer, lithium complexes
     RL: DEV (Device component use); USES (Uses)
        (electrolytes for secondary lithium ion batteries)
RN
     62804-37-9 CAPLUS
     Ethene, 1,1'-sulfonylbis-, homopolymer (9CI) (CA INDEX NAME)
CN
     CM
     CRN 77-77-0
     CMF C4 H6 O2 S
     ANSWER 28 OF 30 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
                         1995:796352 CAPLUS
DOCUMENT NUMBER:
                         123:229586
TITLE:
                         Preparation and characterization of poly(vinyl
                         sulfone) - and poly(vinylidene fluoride) -based
                         electrolytes
AUTHOR (S):
                         Choe, H. S.; Giaccai, J.; Alamgir, M.; Abraham, K. M.
                         EIC Laboratories, Inc., Norwood, MA, 02062, USA
CORPORATE SOURCE:
SOURCE:
                         Electrochimica Acta (1995), 40(13-14), 2289-93
                         CODEN: ELCAAV; ISSN: 0013-4686
PUBLISHER:
                         Elsevier
                         Journal
DOCUMENT TYPE:
                         English
LANGUAGE:
     62804-37-9, Divinyl sulfone homopolymer
     RL: POF (Polymer in formulation); PRP (Properties); USES (Uses)
        (preparation and characterization of poly(vinyl sulfone) - and
        poly(vinylidene fluoride)-based electrolytes)
RN
     62804-37-9 CAPLUS
CN
     Ethene, 1,1'-sulfonylbis-, homopolymer (9CI) (CA INDEX NAME)
     CM
          1
     CRN 77-77-0
     CMF C4 H6 O2 S
```

IT 62804-37-9D, Divinyl sulfone homopolymer, lithium complexes RL: PRP (Properties) (preparation and characterization of poly(vinyl sulfone) - and

poly(vinylidene fluoride)-based electrolytes)

RN62804-37-9 CAPLUS

CNEthene, 1,1'-sulfonylbis-, homopolymer (9CI) (CA INDEX NAME)

CM

CRN · 77-77-0 CMF C4 H6 O2 S

$$H_2C = CH - S - CH = CH_2$$

ANSWER 29 OF 30 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1977:129904 CAPLUS

DOCUMENT NUMBER:

86:129904

TITLE:

Electrochemical reduction of styryl sulfones in DMF

AUTHOR(S):

Berdnikov, E. A.; Fedorov, S. B.; Kargin, Yu. M.

CORPORATE SOURCE:

Kazan. Gos. Univ. im. Ul'yanova-Lenina, Kazan, USSR

Doklady Akademii Nauk SSSR (1977), 232(4), 832-4

SOURCE:

[Phys. Chem.]

CODEN: DANKAS; ISSN: 0002-3264

DOCUMENT TYPE:

Journal

LANGUAGE:

Russian

IT 4973-50-6

RL: RCT (Reactant); RACT (Reactant or reagent)

(reduction of, polarog., in DMF)

RN 4973-50-6 CAPLUS

CN Benzene, 1,1'-(sulfonyldi-2,1-ethenediyl)bis- (9CI) (CA INDEX NAME)

L5ANSWER 30 OF 30 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1974:49406 CAPLUS

DOCUMENT NUMBER:

80:49406

TITLE:

Surface deposition by electrolytic polymerization

PATENT ASSIGNEE(S): Toyota Motor Co., Ltd.

SOURCE:

Brit., 5 pp.

DOCUMENT TYPE:

CODEN: BRXXAA

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
<del></del> ,				
GB 1330212	A	19730912	GB 1971-38228	19710813
JP 48036402	B4	19731105	JP 1970-71601	19700817
CA 952471	A1	19740806	CA 1971-120544	19710813
PRIORITY APPLN. INFO.:			JP 1970-71601 A	19700817
IT 52007-23-5 52007-25	5-7			

RL: USES (Uses)

(coating with, of metal surfaces by electrodeposition)

RN 52007-23-5 CAPLUS

CN 2-Propenoic acid, 2-methyl-, oxiranylmethyl ester, polymer with ethyl 2-propenoate and 1,1'-sulfonylbis[ethene] (9CI) (CA INDEX NAME)

CM 1

CRN 140-88-5 CMF C5 H8 O2

$$\begin{array}{c} \text{O} \\ || \\ \text{EtO- C--- CH-------} \text{CH}_2 \end{array}$$

CM 2

CRN 106-91-2 CMF C7 H10 O3

CM 3

CRN 77-77-0 CMF C4 H6 O2 S

$$\begin{array}{c} {\rm O} \\ || \\ {\rm H_2C} = {\rm CH} - {\rm S} - {\rm CH} = {\rm CH_2} \\ || \\ {\rm O} \end{array}$$

RN 52007-25-7 CAPLUS

CN 2-Propenoic acid, oxiranylmethyl ester, polymer with ethenyl acetate, 2-methyl-2-propenenitrile and 1,1'-sulfonylbis[ethene] (9CI) (CA INDEX NAME)

CM 1

CRN 126-98-7 CMF C4 H5 N

CM 2

CRN 108-05-4

$$AcO-CH = CH_2$$

CM 3

CRN 106-90-1 CMF C6 H8 O3

$$\begin{array}{c|c}
\circ & \circ \\
\text{CH}_2 - \circ - \text{C} - \text{CH} = \text{CH}_2
\end{array}$$

CM 4

CRN 77-77-0 CMF C4 H6 O2 S